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(54) ADAPTIVE INTERFERENCE CANCELLATION RECEIVER

(57)Abstract:

PURPOSE: To eliminate an equi-level interference signal and an unknown interference signal.

CONSTITUTION: Transversal filters FFF1-FFFNB apply weighting to received signals by antennas 1-1 to 1-NB and a synthesis means 3 synthesizes the weighted signals and an error estimate means 4 subtracts an estimated desired signal and an estimated interference signal from the synthesis signal to obtain a likelihood from the estimated error, and a state estimate means 6 estimates a desired signal series and an interference signal series by taking a state transition into account. Furthermore, a desired signal estimate means 8 and interference signal estimate means 7-1 to 7-N generate an estimate desired signal and an estimate interference signal and a parameter control means 9 update each tap coefficient of the estimate means 8, the interference signal estimate means 7-1 to 7-N and the filters FFF1-FFFNB based on the estimate error and the estimate signal series.

